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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/882,018	06/18/2001	Claire-Sabine Randriamasy	Q64966	8810
7590 01/30/2004			EXAMINER	
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			DANIEL JR, WILLIE J	
Suite 800				
2100 Pennsylvania Avenue, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20037-3213			2686	1
			DATE MAILED: 01/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
,	09/882,018	RANDRIAMASY, CLAIRE-SABINE				
Office Action Summary	Examiner	Art Unit				
	Willie J. Daniel, Jr.	2686				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by stated that the period by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days of will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Responsive to communication(s) filed on						
	 is action is non-final.					
3) Since this application is in condition for allow	, 					
Disposition of Claims						
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7) Claim(s) is/are objected to.	<u> </u>					
8) Claim(s) are subject to restriction and	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exami	ner.					
10) \boxtimes The drawing(s) filed on <u>06/18/2001</u> is/are: a) \square accepted or b) \boxtimes objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corre	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s 	5) 🔲 Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				
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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 06/18/2001 is in compliance with the provisions of 37 CFR 1.97 and is being considered by the examiner.

Drawings

- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: Fig. 3 has "HOS₁₂₋₁₅" in which the specification has "HOS₂₋₅" on pg. 6, line 11. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to because **Fig. 2** lacks details explaining each block of flow chart. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Vasudevan et al. (hereinafter Vasudevan) (US 6,539,221).

Regarding Claim 1, Vasudevan discloses a method of constructing a representation (Figs. 1, 5, and 17) of the geographical distribution of traffic for a cellular radio network (see abstract; col. 1, line 64 - col. 2, line 5; col. 2, lines 14-42), the method comprising the steps of:

dividing each cell of said cellular network into a set of sectors which reads on the claimed "areas" using information on handovers obtained from said cellular network (see col. 1, line 64 - col. 2, line 5; col. 5, lines 1-12; Figs. 5, 6, 7, 8, and 20), where the cell is divided into areas for handover of traffic;

determining a traffic threshold which reads on the claimed "value" for each of said areas (see col. 8, lines 44-64; col. 11, lines 4-11; col. 13, lines 9-19; Figs. 3, 22b, 22f, and 22h), where a threshold is calculated for each cell area; and

determining a representation of the geographical distribution of the traffic from said traffic values (see col. 3, lines 47-64; col. 8, line 44 - col. 9, line 17; Figs. 5, 8, 11, 13, and 17), where the cell is split according to traffic threshold.

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Regarding Claim 2, Vasudevan discloses a method according to claim 1, wherein the traffic value of an area depends on a handover probability associated with that area (see col. 8, lines 44-64; col. 11, lines 4-11; col. 13, lines 10-19; Fig. 22b).

Regarding Claim 3, Vasudevan discloses a method according to claim 2, wherein said handover probabilities are computed conjointly with said traffic values by a constraint optimization method (see col. 1, lines 41-49; col. 5, line 39 - col. 8 line 43; col. 13, lines 10-19; Figs. 18 and 22b), where the network optimization is performed within the constraints of the algorithms.

Regarding Claim 4, Vasudevan discloses a method according to claim 1, wherein the step of dividing each cell is made up of the following substeps:

acquiring incoming handover boundaries from best server maps provided by a management system (see col. 3, lines 6-64; col. 4, lines 32 - col. 5, line 35; Figs. 16, 17, and 23a-c), where the system determines the handover boundaries which are adjusted according to traffic demands, and

computing outgoing handover boundaries from said incoming handover boundaries, said outgoing handover boundaries forming the boundaries of said areas (see col. 3, lines 6-64; col. 4, lines 32 - col. 5, line 35; Figs. 16, 17, and 23a-c), where determining of the outgoing boundaries are generated from the incoming boundary would be inherent for handover.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a. Agrawal et al. (US 5,530,912) discloses a Traffic Driven Channel Reservation

System for Handovers in Cellular Networks.

b. Suzuki (US 6,356,760) discloses a Mobile Communication System With Traffic Collection and Control For Base Stations.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Willie J. Daniel, Jr. whose telephone number is (703) 305-8636. The examiner can normally be reached on 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on (703) 305-4379. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-3180.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-5424.

WJD,JR/wjd,jr 23 January 2004 MARSHA D. BANKS-HAROLD
SUPERVISORY DEFENDED TECHNOLOGY CENTER 2600

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